

FIG. 1B

FIG. 1A

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Replacement Sheet

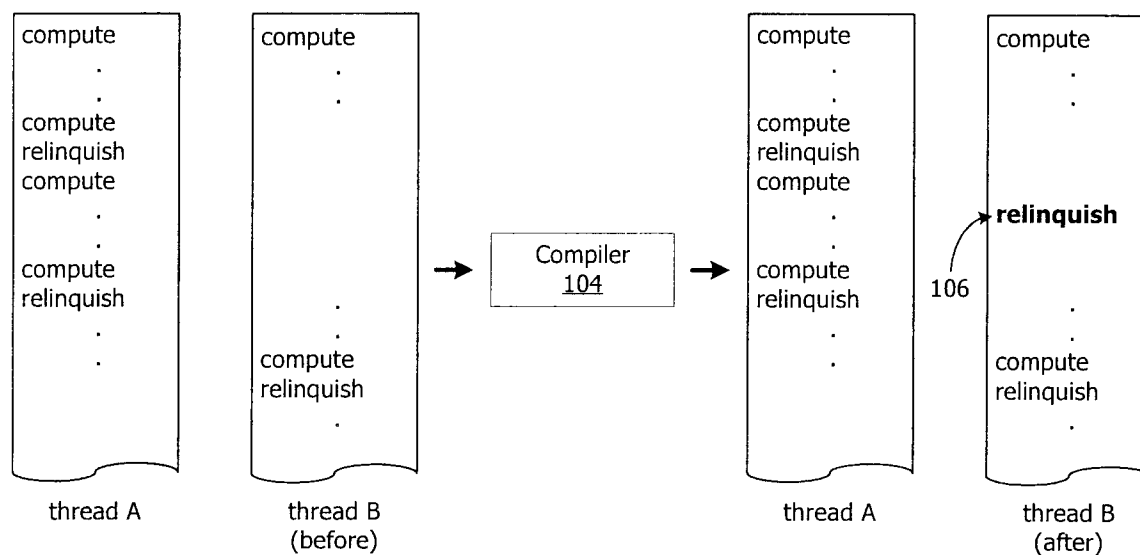


FIG. 2

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Replacement Sheet

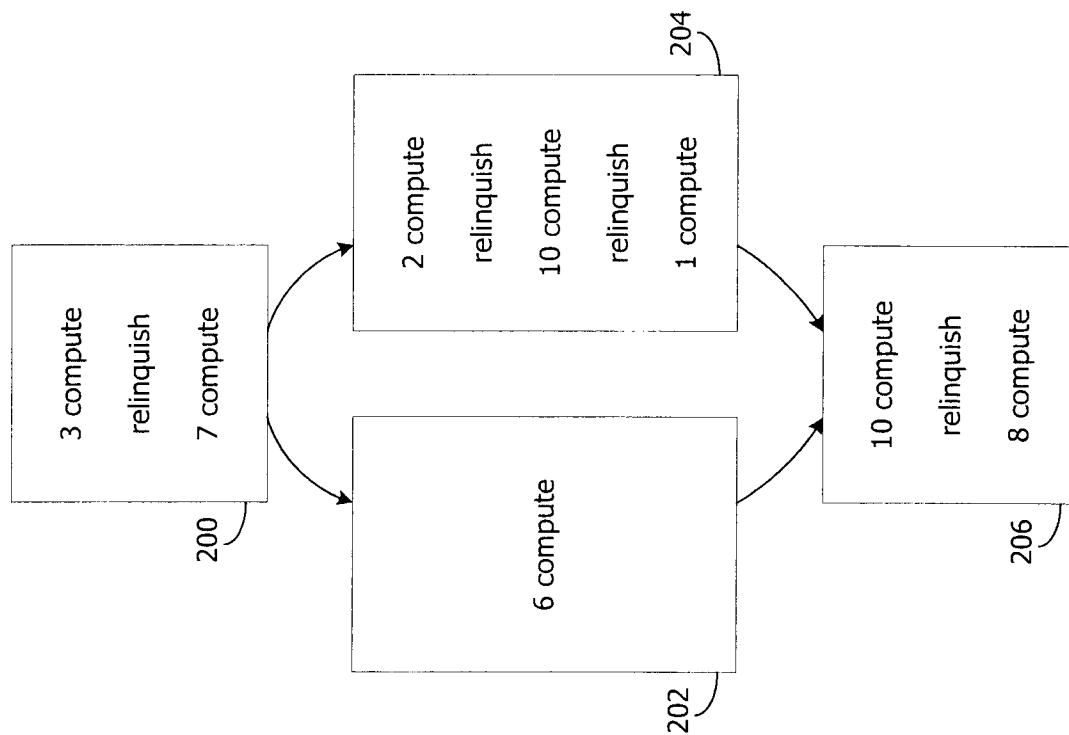


FIG. 3A

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Replacement Sheet

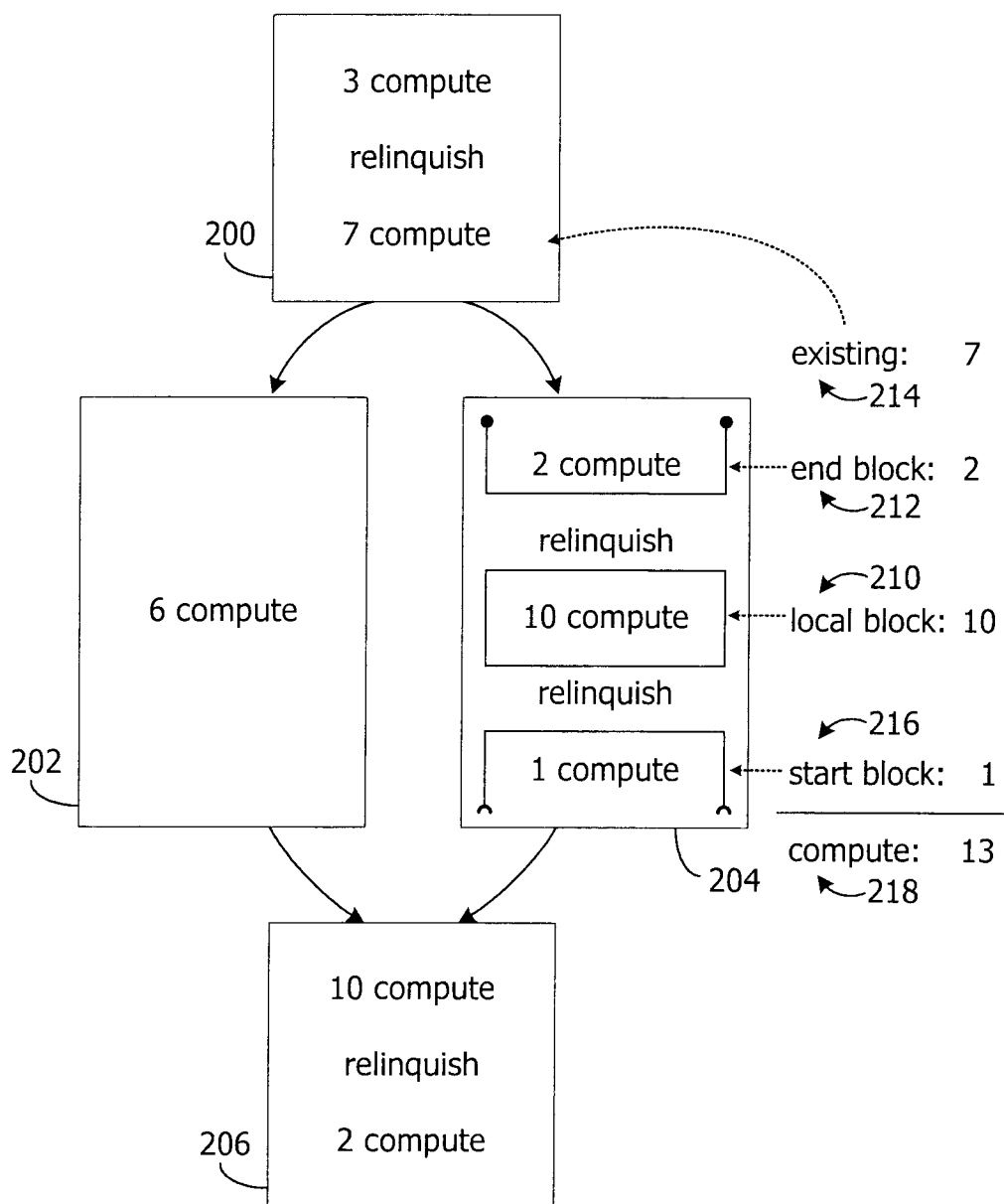


FIG. 3B

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Replacement Sheet

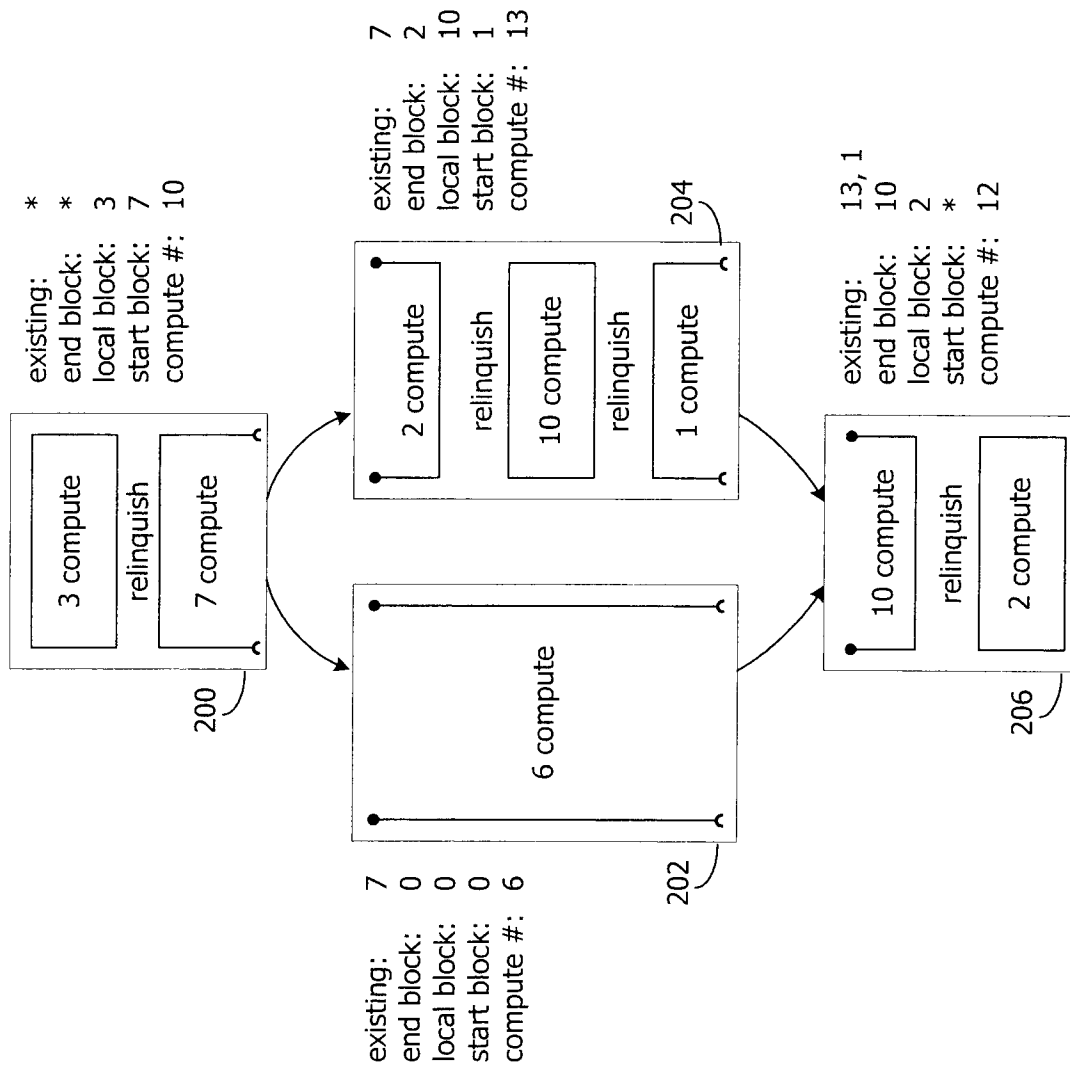


FIG. 3C

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Replacement Sheet

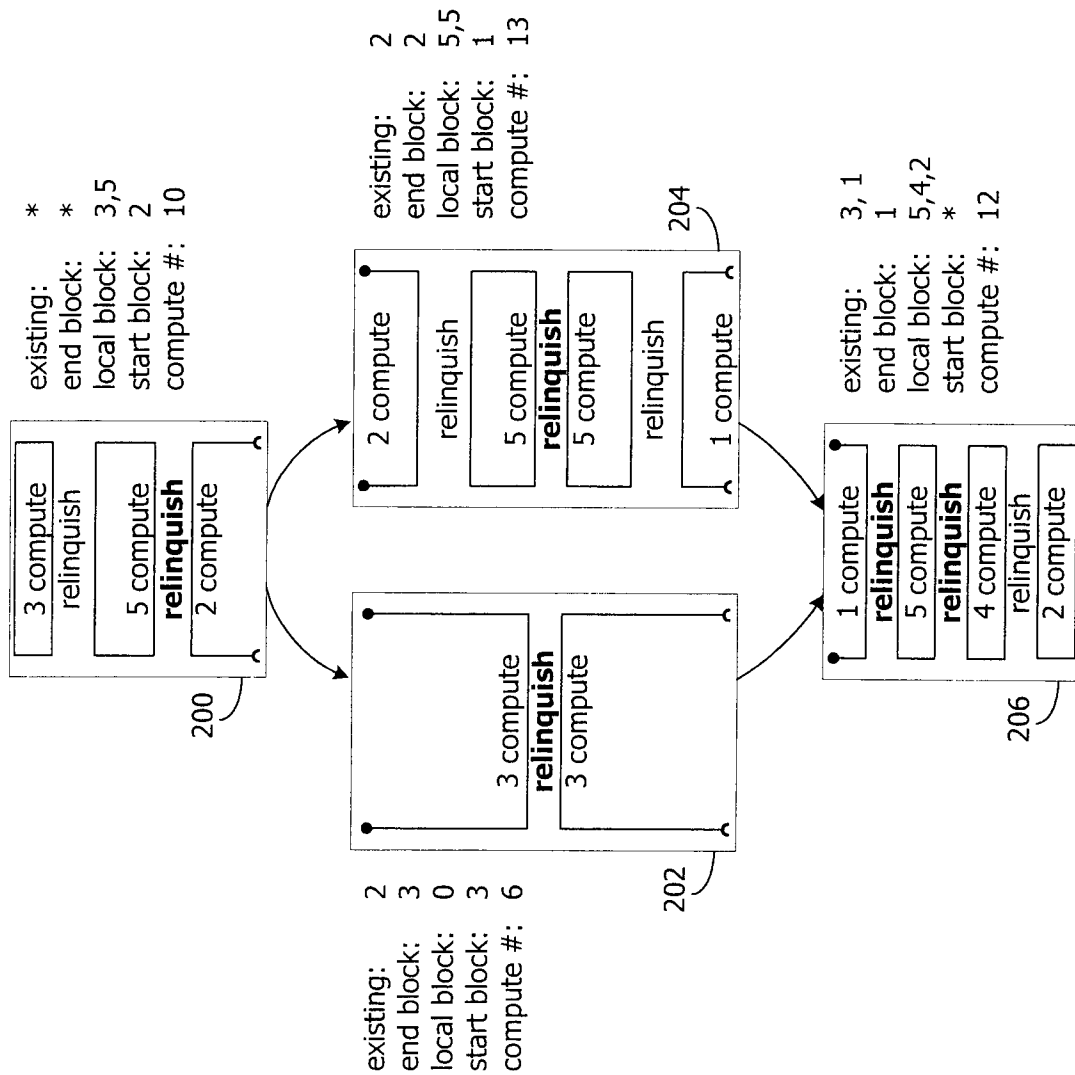


FIG. 3D

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Replacement Sheet

```
// for wholly included compute blocks
for each compute block wholly contained in node
    if block_size > threshold
        300      number_blocks = ceiling(block_size, threshold)
                insert relinquish instructions to break up block into ~ equal
                number_blocks
```

FIG. 4A

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Replacement Sheet

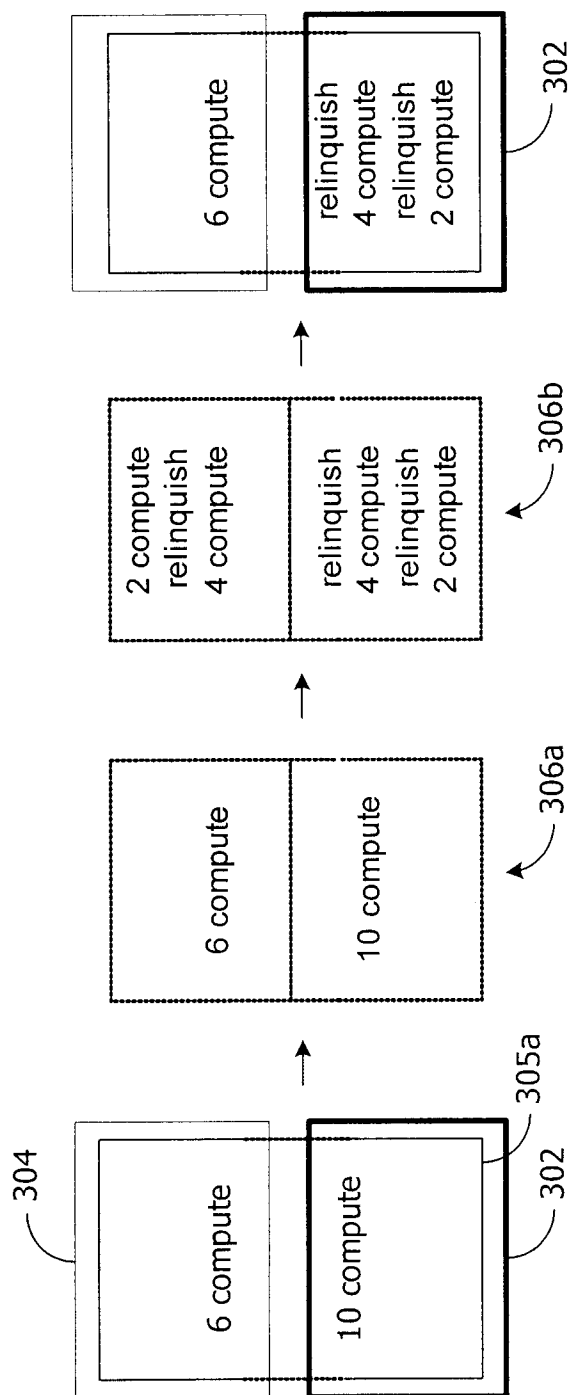


FIG. 4B

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Replacement Sheet

```
// blocks started in ancestor and terminated in current node  
    if (min (ancestor start block) + end_block) < threshold goto exit  
308    number_blocks = ceiling((min(ancestor start block)+ end_block) / threshold  
    new_size = (min(ancestor start block) + end_block) / number_blocks  
    instruction_number = min(ancestor start block) modulo new_size  
  
    if (instruction_number > end_block) goto exit  
    end_block = instruction_number  
310    insert relinquish instructions, starting at instruction_number,  
    every (new_size + 1) instructions
```

FIG. 4C

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Replacement Sheet

```
// blocks started in this node and terminated in descendent
if (start_block + min (descendent end block)) < threshold skip this processing
// Determine where to insert the first relinquish instruction
312 → number_blocks = ceiling((start_block + min(descendent end block) / threshold)
      new_size = (start_block + min (descendent end block) / number_blocks
      instruction_number = min (descendent end block) modulo new_size
314 → insert relinquish instructions, starting instruction_number
      from the end of the node, every (new_size + 1) instructions
```

FIG. 4D

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Replacement Sheet

```
    // for nodes having no relinquish instructions
316 // Determine size of smallest contiguous block of instructions
    size = min ( descendent end block) + compute_count + min (ancestor start block)
    if size < threshold goto exit
    // Compute where to insert first relinquish instruction in this node
    number_blocks = ceiling(size / threshold)
    new_size = size / number_blocks
318 instruction_number = min (ancestor start block) modulo new_size
    if instruction_number > compute_count goto exit
    insert relinquish instructions, starting at
    instruction_number, every (new_size + 1) instructions
```

FIG. 4E

FIG. 5

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Replacement Sheet

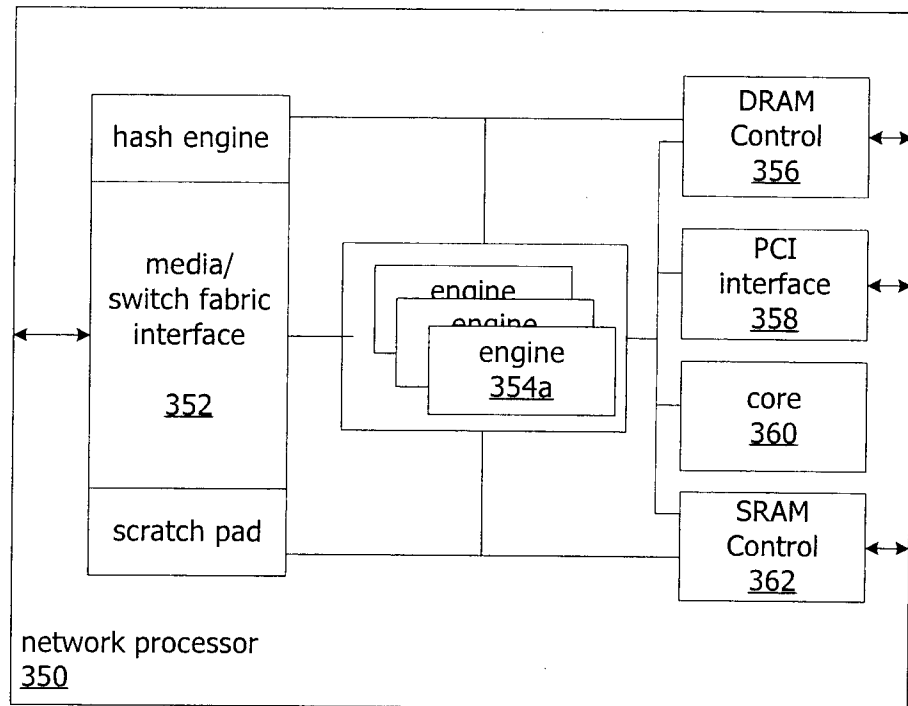


FIG. 6